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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/800,889	03/08/2001	Toshiki Miyasaka	04329.2524	6822

22852 7590 03/30/2004

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EXAMINER

LEE, JOHN J

ART UNIT

PAPER NUMBER

2684

DATE MAILED: 03/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/800,889

Applicant(s)

MIYASAKA ET AL.

Examiner

JOHN J LEE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 January 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1 – 19** are rejected under 35 U.S.C. 103(a) as being unpatentable over Nabetani et al. (US Patent number 5,889,649) in view of Casarez et al. (US Patent number 5,913,174).

Regarding **claim 1**, Nabetani discloses that an electronic apparatus (Fig. 10). Nabetani teaches that a holding portion (1-1 in Fig. 9, 114 in Fig. 16) which detachably holds a radio communication card (Fig. 4) (see abstract and Fig. 10, 16). Nabetani discloses that a metal plate on which the holding portion is provided (Fig. 16 and column 10, lines 45 – column 11, lines 15). Nabetani discloses that a connecting portion (2-2 in Fig. 3) for data communication (data to be exchanged between an information processing apparatus and a portable device) with the radio communication card held by the holding portion (Fig. 3, 10 and column 5, lines 32 – column 6, lines 26). Nabetani also discloses that the holding portion (1-1 in Fig. 9, 114 in Fig. 16) being arranged to hold the radio communication card (PCMCIA in Fig. 3) and the minimum distance between the connector and the metal plate is 1 mm or more (see Fig. 10, 16 and column 10, lines 45 –

column 11, lines 42 where teaches non-contact connection method means having distance between metal plate and connector).

Nabetani does not specifically disclose the limitation “a radio communication card includes the antenna is located outside of the holding portion”. However, Casarez discloses the limitation “a radio communication card includes the antenna is located outside of the holding portion” (Fig. 1, 16 and column 5, lines 43 – column 6, lines 28 where teaches a radio card includes a planar antenna locating outside of the holding portion). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Nabetani system as taught by Casarez. Doing so would enhance the data/signal adaptability between radio card device and portable device in communication system.

Regarding **claims 2, 7, and 11**, Nabetani discloses that a transmitter-receiver portion (Fig. 3) connected to the connecting portion (2-2 in Fig. 4), and configured to transmit and receive data through a public data network (Fig. 3, 10 and column 5, lines 32 – column 6, lines 26).

Regarding **claim 3**, Nabetani discloses that the holding portion is arranged to hold the radio communication card in a manner such that the minimum distance between the antenna and the metal plate is 2 mm or more (see Fig. 10, 16 and column 10, lines 45 – column 11, lines 42 where teaches non-contact connection method means having distance between metal plate and connector).

Regarding **claims 4, 8, 12, and 15**, Nabetani discloses that the radio communication card includes a PC card (Fig. 3, 10 and column 5, lines 32 – column 6, lines 26).

Regarding **claim 5**, Nabetani and Casarez disclose all the limitation, as discussed in claim 1. Furthermore Nabetani further discloses that an apparatus body having an installation surface and a first surface opposite to the installation surface (Fig. 10, 16 and column 7, lines 60 – column 8, lines 36). Nabetani teaches that a holding portion provided at the apparatus body (Fig. 10) and configured to detachably hold a radio communication card (Fig. 10, 16 and abstract), which has a second surface (Fig. 10, 16 teaches the surface of connection portion) (Fig. 10, 16 and column 10, lines 45 – column 11, lines 42). Nabetani also teaches that the holding portion being arranged to hold the radio communication card in a manner such that the first and second surfaces face in the same direction (Fig. 10, 16 and column 10, lines 45 – column 11, lines 42 where teaches two surfaces, which are surface of connector side and opposite side of connector, are same direction as see in arrow).

Regarding **claim 6**, Nabetani discloses that the holding portion includes a preventing portion, which prevents the radio communication card from being set in a manner such that the first and second surfaces face in opposite directions (Fig. 9 and column 6, lines 14 – 60).

Regarding **claim 9**, Nabetani does not specifically disclose the limitation “a display element provided on the first surface of the apparatus body and capable of displaying operating states”. However, Casarez discloses the limitation “a display

element provided on the first surface of the apparatus body and capable of displaying operating states” (Fig. 1, and column 2, lines 15 – column 2, lines 61). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Nabetani system as taught by Casarez. The motivation does so would be to achieve presenting the best possible of reception for users in communication system.

Regarding **claim 10**, Nabetani and Casarez disclose all the limitation, as discussed in claims 1 and 5. Furthermore Nabetani further discloses that situated farther from the installation surface of the apparatus body (Fig. 10) than a center of the apparatus body with respect to the height direction of the apparatus body (Fig. 10, 16 and column 10, lines 45 – column 11, lines 42).

Regarding **claim 13**, Nabetani and Casarez disclose all the limitation, as discussed in claims 1 and 5. Furthermore Nabetani further discloses that a cover (2 in Fig. 4) removably fitted to the apparatus body and covering the radio communication card set in position and the holding portion (Fig. 4, 10 and column 6, lines 28 – column 7, lines 41).

Regarding **claim 14**, Nabetani and Casarez disclose all the limitation, as discussed in claims 5 and 13.

Regarding **claim 16**, Nabetani discloses that the cover is formed of a nonmetallic material capable of transmitting light (column 9, lines 43 – column 10, lines 21 and Fig. 13).

Regarding **claim 17**, Nabetani and Casarez disclose all the limitation, as discussed in claims 5 and 10. Furthermore, Nabetani further discloses that a slide switch (ejecting operating portion (8-2) in Fig. 4), another switch (13-2 in Fig. 10). Nabetani teaches that

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a setting section which sets operating modes of the apparatus in accordance with combinations of shift positions of the switches (Fig. 10 teaches as a detachably holding position (plug-in position) such as non-contact connection, automatically changing to data exchange mode (setting the mode) and the switches changed the position when the card inserted see Fig. 10, 16 and column 10, lines 45 – column 11, lines 15). However, Nabetani does not exactly disclose the limitation “a slide and rotary switches”. However, this would have been obvious that using the a slide and rotary or any kind shape of switches in the electronic device taught by Nabetani could have been used in electronic apparatus since all kind of switches is just one kind of switch system and the principle works the same.

Regarding **claim 18**, Nabetani and Casarez disclose all the limitation, as discussed in claims 1 and 2.

Regarding **claim 19**, Nabetani teaches that a radio communication portion involving entry of a specific identification code when linked to another apparatus, and wherein the operating modes include a mode for changing the specific identification code (Fig. 3 and column 5, lines 35 – column 6, lines 26).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Armitage et al. (US Patent number 6,157,958) discloses Modular Tablet Computer System.

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Beard et al. (US Patent number 6,522,299) discloses PC Card Retractable Antenna.

Any response to this action should be mailed to:

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or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label
"PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John J. Lee** whose telephone number is **(703) 306-5936**. He can normally be reached Monday-Thursday and alternate Fridays from 8:30am-5:00 pm. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, **Nay Aung Maung**, can be reached on **(703) 308-7745**. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

J.L.
March 16, 2004

John J Lee



NICK CORSARO
PATENT EXAMINER

Prhney